



EMOTIONAL SUPPORT MEASURE DIFFERENCES

A brief guide to differences between the PROMIS[®] Emotional Support instruments:

ADULT
PROMIS Item Bank v2.0 – Emotional Support
PROMIS Short Form v2.0 – Emotional Support 4a
PROMIS Short Form v2.0 – Emotional Support 6a
PROMIS Short Form v2.0 – Emotional Support 8a

ABOUT EMOTIONAL SUPPORT

The PROMIS Emotional Support item bank assesses perceived feelings of being cared for and valued as a person; having confidant relationships.

Emotional Support instruments are available for adults (ages 18+).

INTRODUCTION TO ASSESSMENT OPTIONS

There are two administration options for assessing Emotional Support: short forms and computer adaptive test (CAT). When administering a short form, instruct participants to answer all of the items (i.e., questions or statements) presented. With CAT, participant responses guide the system's choice of subsequent items from the full item bank (16 items in total). Although items differ across respondents taking CAT, scores are comparable across participants.

Some administrators may prefer to ask the same question of all respondents or of the same respondent over time, to enable a more direct comparability across people or time. In these cases, or when paper administration is preferred, a short form would be more desirable than CAT. This guide provides information on all Emotional Support short form and CAT instruments.

CAT: A minimum number of items (4 for adult CATs) must be answered in order to receive a score for the Emotional Support CAT. The response to the first item will guide the system's choice of the next item for the participant. The participant's response to the second item will dictate the selection of the following question, and so on. As additional items are administered, the potential for error is reduced and confidence in the respondent's score increases. CAT will continue until either the standard error drops below a specified level (on the T-score metric 3.0 for adult and adult cancer CATs and 4.0 for peds and parent proxy CATs), or the participant has answered the maximum number of questions (12), whichever occurs first.

CAT versus Short Form: Whether one uses a short form or CAT, the score metric is Item Response Theory (IRT), a family of statistical models that link individual questions to a presumed underlying trait or concept of emotional support represented by all items in the item bank. When choosing between CAT and a short form, it is useful to consider the demands of computer-based assessment, and the psychological, physical, and cognitive burden placed on respondents as a result of the number of questions asked.

Figure 1 illustrates the correlations (strength of relationship) of the full bank with CAT and with short forms of varying length. The correlation of CAT scores with the full bank score is greater than a short form of any length. A longer CAT or longer short form offers greater correlation, as well as greater precision. When evaluating precision, not all questions are equally informative. The flexibility of CAT to choose more informative questions offers more precision.

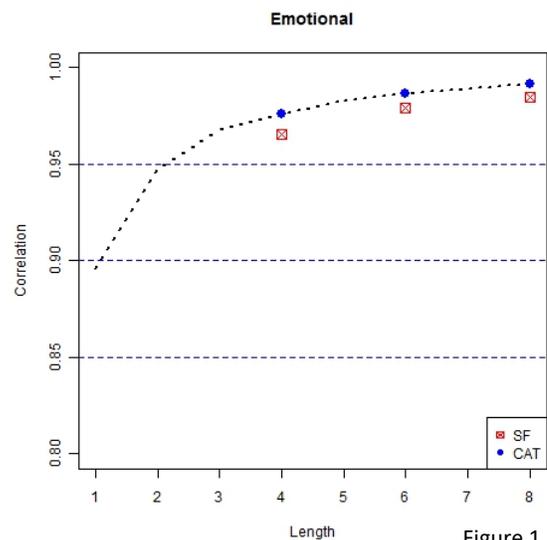


Figure 1

VERSION DIFFERENCES

There is no version of Emotional Support that existed before v2.0. The initial Emotional Support item bank was named v2.0 in order to be consistent with the Ability to Participate in Social Roles and Activities v2.0 and Satisfaction with Social Role and Activities v2.0 instruments.

SHORT FORM DIFFERENCES

The original short form (4a, 6a, 8a) was constructed by the domain team with a focus on representing the range of the trait and also representing the content of the item bank. Domain experts reviewed short forms to give input on the relevance of each item. Each domain group worked independently and the original short forms are 6-10 items long depending on the domain. Psychometric properties and clinical input were both used and likely varied in importance across domains.

There are 3 adult short forms. Items were selected based on content and psychometric characteristics. Short form items are nested or overlap (e.g., an 8-item short form is the 4-item short form plus two additional items).

Selecting a Short Form

In selecting between short forms, the difference is instrument length. The reliability and precision of the short forms within a domain is highly similar. If you are working with an adult sample in which you wanted the most precise measure, select the 8a short form. If you are working in an adult sample in which you expected huge variability in a domain area and wanted different subdomains covered, you should select the 8a short form. If you had little room for additional measures but really wanted to capture something as a secondary outcome, you should use one of the shorter instruments (4a, 6a).

SCORES

For most PROMIS instruments, a score of 50 is the average for the United States general population with a standard deviation of 10 because calibration testing was performed on a large sample of the general population.

You can read more about the calibration and centering samples on HealthMeasures.net (<http://www.healthmeasures.net/score-and-interpret/interpret-scores/promis>). The T-score is provided with an error term (Standard Error or SE). The Standard Error is a statistical measure of variance and represents the “margin of error” for the T-score.

Important: A higher PROMIS T-score represents more of the concept being measured. For positively-worded concepts like Emotional Support, a T-score of 60 is one SD better than average. By comparison, an Emotional Support T-score of 40 is one SD worse than average.

STATISTICAL CHARACTERISTICS

There are four key features of the score for Emotional Support:

- **Reliability:** The degree to which a measure is free of error. It can be estimated by the internal consistency of the responses to the measure, or by correlating total scores on the measure from two time points when there has been no true change in what is being measured (for z-scores, reliability = $1 - SE^2$).
- **Precision:** The consistency of the estimated score (reciprocal of error variance).
- **Information:** The precision of an item or multiple items at different levels of the underlying continuum (for z-scores, information = $1/SE^2$).
- **Standard Error (SE):** The possible range of the actual final score based upon the scaled T-score. For example, with a T-score of 52 and a SE of 2, the 95% confidence interval around the actual final score ranges from 48.1 to 55.9 (T-score $\pm (1.96*SE) = 52 \pm 3.9 = 48.1$ to 55.9).

Sample	N	Alpha Reliability
Promis	14931	0.99

Score Distributions									
	Mean	SD	P5	P10	P25	P50	P75	P90	P95
Raw	220.69	91.34	98.00	109.00	142.00	206.00	284.00	356.00	392.00
Scale	51.23	9.41	36.46	39.02	44.31	50.82	57.83	63.97	67.33

										Min	Max
Scale Score	10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	10.0	90.0
SE	1.70	.70	.20	.10	.10	.10	.10	.10	.30		
Reliability	.00	.52	.94	.99	.99	.99	.99	.99	.90		

Figure 2

The final score is represented by the T-score, a standardized score with a mean of 50 and a standard deviation (SD) of 10.

Figure 2 is a sample of the statistical information available for the adult Emotional Support CAT.

More information is available at HealthMeasures.net.



PREVIEW OF SAMPLE ITEM

Figure 3 is an excerpt from the paper version of the adult eight-item short form. This is the paper version format used for all Emotional Support instruments. It is important to note, CAT is not available for paper administration.

		Never	Rarely	Sometimes	Usually	Always
F8E31053x2	I have someone who will listen to me when I need to talk	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
F8E31059x2	I have someone to confide in or talk to about myself or my problems	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5

Figure 3

FREQUENTLY ASKED QUESTIONS (FAQs)

Q: I am interested in learning more. Where can I do that?

Review the HealthMeasures website at www.healthmeasures.net.

Q: Are these instruments available in other languages?

Yes! Look at the HealthMeasures website (<http://www.healthmeasures.net/explore-measurement-systems/promis/intro-to-promis/available-translations>) for current information on PROMIS translations.

Q: Can I make my own short form?

Yes, custom short forms can be made by selecting any items from an item bank. This can be scored using the Scoring Service (https://www.assessmentcenter.net/ac_scoringervice).